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Indian Standard

(Reaffirmed 2004)

METHOD OF MAGNETIC TESTING OF TV FERRITE COMPONENTS

PART 1 MEASUREMENT OF MAGNETIC PROPERTIES OF BEAM CENTERING MAGNET

Magnetic Components and Ferrite Materials Sectional Committee, LTDC 13; Panel for Entertainment Ferrites, LTDC 13 P4 [Ref : Doc : LTDC 13 (831)]

1. Scope — Covers test methods for magnetic measurement of beam centering magnet.

2. Magnetic Measurement — Magnetic measurement may be done for flux measurement or flux density measurement using a Hall probe, which is a simple method.

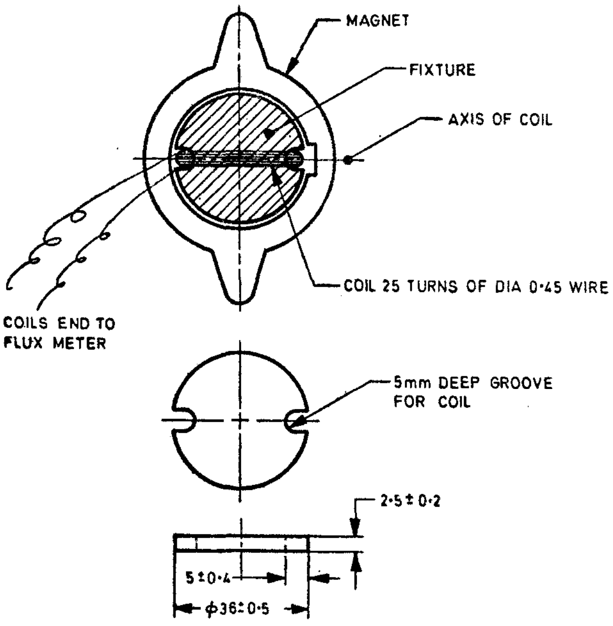
2.1 *Flux Measurement* — Figure 1 gives test fixture to measure closed circuit flux. Twenty five turns (*see* Note 1) of enamelled copper wire (0·45 mm dia) are wound on a MS fixture as shown in the Fig. 1. This fixture is connected to a flux meter through control box.

The beam centering ring to be tested is placed in this fixture such that its magnetic axis becomes perpendicular to the direction of winding. The flux meter pointer is then adjusted to zero and magnet is rotated through 180° along the periphery of fixture. The flux meter reading to then recorded (which indicates total flux produced by the magnet) and magnet is taken out.

Note 1 — Number of turns and gauge of the wire will vary according to the type of the meter used (impedance).

Note 2 — Since this is a comparative test method it is necessary to have a reference magnets, which meets the minimum requirements of the application.

2.2 *Flux Density Measurement* — Measure flux density with use of a Hall probe and Gauss meter by placing the probe at the centre of the magnet.



All dimensions in millimetres.

FIG. 1 TEST FIXTURE FOR FLUX MEASUREMENT OF BEAM CENTERING MAGNET

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